Application No. 09/844,251 Filed: April 27, 2001 TC Art Unit:2832

Confirmation No.:8919

AMENDMENT TO THE CLAIMS

1. (Currently Amended) A process for preparing a contact on a

microswitch, the process reducing a resistance of the microswitch

and maintaining a low resistance of the microswitch for many

cycles, comprising:

a. forming the microswitch contact with a predetermined

material;

b. temporarily exposing the microswitch contact for a set

period of time to a fluid under predetermined conditions to being

reactive with the contact material to lower a contact resistance.

2. (Previously Presented) The process of claim 1 wherein the

microswitch is a microrelay.

3. (Previously Presented) The process of claim 1 wherein the

material used to form the contact is selected from the group

consisting of gold, ruthenium, rhodium and combinations thereof.

4. (Previously Presented) The process of claim 3 wherein the

material is ruthenium.

-2-

**2**005

Application No. 09/844,251 Filed: April 27, 2001 TC Art Unit:2832

Confirmation No.:8919

5. (Previously Presented) The process of claim 1 wherein the

microswitch is fabricated using the process outlined in Figure 3.

6. (Withdrawn) The process of claim 1 wherein said fluid for

preparing said microswitch comprises materials selected from the

group consisting of acids, bases, peroxides and mixtures thereof.

7. (Withdrawn) The process of claim 6 wherein said materials are

diluted with water.

8. (Withdrawn) The process of claim 6 wherein said materials are

selected from the group consisting of sulfuric acid, hydrochloric

acid, ammonium hydroxide, hydrogen peroxide, and mixtures thereof,

said materials being optionally diluted with water.

9. (Withdrawn) The process of claim 6 wherein said contacts are

exposed to said materials for approximately 5 - 30 minutes.

10. (Withdrawn) The process of claim 9 wherein said exposure is

for approximately 20 minutes.

-3-

07/21/2005 15:54 FAX 6176950892

11.

WSGL

Ø 006

Application No. 09/844,251 Filed: April 27, 2001

TC Art Unit:2832

Confirmation No.:8919

(Withdrawn) The process of claim 9 wherein said preparation

additionally includes a step of releasing said die from a mold by

use of a process comprising (1) exposing said die and mold to

concentrated, semiconductor grade hydrogen peroxide for

approximately 5-20 minutes), (2) rinsing said die with deionized

water for approximately 5-20 minutes, (3) exposing said die to a

25% solution of concentrated, semiconductor grade nitric acid, 75

% deionized water (vol/vol), at from room temperature to 60C for

approximately 30-90 minutes, (4) rinsing said die with deionized

water for approximately 5-20 minutes, (5) exposing said die and

mold to concentrated, semiconductor grade hydrogen peroxide for

approximately 5-20 minutes, (6) rinsing said die with deionized

water for approximately 5-20 minutes, and (7) drying said released

microswitch with N2 gas.

(Previously Presented) The process of claim 1 wherein the

fluid comprises materials selected from the group consisting of

oxygen, carbon tetrafluoride, sulfur hexafluoride orother

fluorine-containing gases, argon and mixtures thereof.

(Previously Presented) The process of claim 12 wherein the

material is a gaseous plasma.

-4-

07/21/2005 15:54 FAX 6176950892

WSGL

**2**1007

Application No. 09/844,251 Filed: April 27, 2001

TC Art Unit:2832

Confirmation No.:8919

14. (Previously Presented) The process of claim 13 wherein the

plasma is Inductively Coupled Plasma.

15. (Previously Presented) A process for preparing a contact on a

microswitch wherein the contact formation includes Ru, comprising

temporarily exposing the contact to an oxygen plasma to reduce

contact resistance.

16. (Previously Presented) A microswitch contact formed according

to the process of claim 1.

17. (Previously Presented) A microswitch formed according to the

process of claim 1.

18. (Previously Presented) A microswitch formed according to the

process of claim 5.

19. (Previously Presented) A microswitch formed on a

semiconductor die with an active region, wherein the microswitch

is formed according to the process of claim 1.

-5-

Application No. 09/844,251 Filed: April 27, 2001 TC Art Unit:2832 Confirmation No.:8919

20. (Previously Presented) A semiconductor package having a semiconductor die connected to external pins, the die including an active area;

a microswitch formed on a surface of the die, wherein the microswitch is formed according to the process of claim 1.